# Customer Login Test Plan (STP)

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Date: 10/08/2025

Version: 1.1

## 1. Introduction

### 1.1 Purpose

This test plan outlines the testing activities for the Customer Login feature of the ParaBank application. Testing will be conducted to ensure the feature meets the requirements in the FRD and performs as expected.

### 1.2 Scope

The scope covers functional, non-functional, and security testing of the Customer Login feature, including:  
- UI validation for login page components  
- API validation for authentication endpoints  
- Integration checks with backend services  
Out of scope: Testing of account recovery or registration processes beyond link navigation validation.

### 1.3 References

- Feature Requirements Document (FRD)  
- ParaBank API Documentation  
- UI Design Specifications  
- Company Security Guidelines

## 2. Test Items

- Customer Login UI  
- Backend authentication service  
- Audit trail logging  
- Session management system

## 3. Testing Strategy

### 3.1 Test Levels

- System Testing  
- Acceptance Testing

### 3.2 Testing Types

- Functional Testing  
- Security Testing  
- Usability Testing  
- Compatibility Testing

### 3.3 Test Design Techniques

- Functional Tests: Valid/invalid credential inputs, empty fields, whitespace handling, link navigation.  
- Security Tests: SQL Injection, XSS prevention, brute-force detection (account lock).  
- Usability Tests: Keyboard navigation, mobile responsiveness, password masking.  
- Compatibility Tests: Multiple browsers and OS platforms.

## 4. Test Environment

### 4.1 Hardware Requirements

PC/Laptop: 8GB RAM, Intel i5, 256GB SSD

### 4.2 Software Requirements

OS: Windows 10/11, macOS, Android, iOS  
Browsers: Chrome, Firefox, Edge, Safari  
Tools: TestRail, Jira, Postman

### 4.3 Test Data

- Valid and invalid username/password combinations  
- SQL Injection and XSS payloads  
- Pre-configured accounts with specific statuses (locked, active, closed)

### 4.4 Test Plan

|  |  |  |
| --- | --- | --- |
| TC ID | Description | Expected Result |
| TC01 | Login with valid username and password | Redirect to account overview (Positive) |
| TC02 | Login with valid username and invalid password | Error message shown (Negative) |
| TC03 | Login with invalid username and valid password | Error message shown (Negative) |
| TC04 | Submit login form with empty fields | Validation message displayed (Negative) |
| TC05 | Submit login form with whitespace-only input | Validation message displayed (Negative) |
| TC06 | Click 'Forgot login info?' link | Redirect to account recovery page (Positive) |
| TC07 | Click 'Register' link | Redirect to new user registration page (Positive) |
| TC08 | Attempt login with SQL injection payload | Input rejected (Negative) |
| TC09 | Attempt login with XSS script | Sanitized, no execution (Negative) |
| TC10 | Enter password and verify masking | Password masked with symbols (Positive) |
| TC11 | Navigate form using only keyboard | Logical navigation order (Positive) |
| TC12 | Access login page from mobile device | Responsive layout displayed (Positive) |
| TC13 | Attempt login after 5 failed attempts | Account locked (Negative) |
| TC14 | Verify audit log entry after login attempt | Log recorded with details (Positive) |
| TC15 | Verify session management after login | Session token handled correctly (Positive) |

## 5. Roles and Responsibilities

Test Manager: Baseil Jaber – Responsible for overall test planning.  
Test Engineers: Ali Abo Jafar, Abdelnaser – Responsible for test execution and reporting.  
Monitor: Ali Taha – Oversee test progress and compliance.

## 6. Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| Activity | Start Date | End Date | Responsible |
| Test Plan Preparation | 08\08\25 | 13\08\25 | Test Manager |
| Test Case Development | 11\8\25 | 13\8\25 | QA Team |
| Test Execution | 12\8\25 | 14\8\25 | QA Team |

## 7. Test Deliverables

- Test Plan  
- Test Cases in TestRail  
- API Collections in Postman  
- Defect Reports in Jira  
- Test Execution Report  
- Final Test Summary Report

## 8. Entry and Exit Criteria

### 8.1 Entry Criteria

- All test cases reviewed and approved  
- Test environment set up and verified

### 8.2 Exit Criteria

- All high-priority defects resolved  
- Test coverage at 95% minimum

## 9. Risk and Mitigation

- Risk: Test environment unavailability → Mitigation: Maintain backup environment  
- Risk: Build delays → Mitigation: Adjust test schedule and prioritize high-impact cases  
- Risk: Test data inconsistencies → Mitigation: Use controlled datasets

## 10. Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Role | Signature | Date |
| Baseil Jaber | Test Manager |  |  |
| Ali Abo Jafar | QA Engineer |  |  |
| Abdelnaser | QA Engineer |  |  |
| Ali Taha | Project Monitor |  |  |